



MP3 CD Player/Weather Band Receiver

PP P/N PP103910

Operating Instructions



MP3

- Please read these instructions carefully before using this product and keep this manual for future reference.

Safety Information

- Read the operating instructions for the unit and all other components of your truck audio system carefully before using the system. They contain instructions about how to use the system in a safe and effective manner. We assume no responsibility for any problems resulting from failure to observe the instructions given in this manual.



Warning

This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in severe injury or death.



Caution

This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in injury or material damage.



Warning

Observe the following warnings when using this unit.

- ❑ **The driver should not operate the system while driving.**

Operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before operating the system.

- ❑ **Use the proper power supply.**

This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.

- ❑ **Protect the Deck Mechanism.**

Do not insert any foreign objects into the slot of this unit.

- ❑ **Do not disassemble or modify the unit.**

Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealership.

- ❑ **Do not use the unit when it is out of order.**

If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealership.

- ❑ **Any NOAA broadcast weather report, including current and forecasts, may not reflect your actual weather conditions at your exact time and location. You should always pay attention to your actual weather conditions to make safe decisions accordingly.**

Observe the following warnings when installing.

- ❑ **Disconnect the lead from the negative (–) battery terminal before installation.**

Wiring and installation with the negative (–) battery terminal connected may cause electrical shock and injury due to a short circuit.

Some trucks equipped with the electrical safety system have specific procedures of battery terminal disconnection.

FAILURE TO FOLLOW THE PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.

- ❑ **Never use safety-related components for installation, grounding, and other such functions.**

Do not use safety-related vehicle components (fuel tank, brake, suspension, steering wheel, pedals, etc.) for wiring or fixing the product or its accessories.

- ❑ **Check for piping, gasoline tank, electric wiring, and other items before installing the product.**

If you need to open a hole in the vehicle chassis to attach or wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside if possible.

- ❑ **Never install the product in a location where it interferes with your field of vision.**

- ❑ **Never have the power cord branched to supply other equipment with power.**

- ❑ **After installation and wiring, you should check the normal operation of other electrical equipment.**

The continuation of their using in abnormal conditions may cause fire, electrical shock or a traffic accident.

- ❑ **Make sure the leads do not interfere with driving or getting in and out of the vehicle.**

- ❑ **Insulate all exposed wires to prevent short circuiting.**

Caution

Observe the following cautions when using this unit.

Keep the sound volume at an appropriate level.

Keep the volume level low enough to be aware of road and traffic conditions while driving.

Do not insert or allow your hand or fingers to be caught in the unit.

To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially watch out for infants.

This unit is designed for use exclusively in trucks.

Do not operate the unit for a prolonged period with the engine turned off.

Operating the audio system for a long period of time with the engine turned off will drain the battery.

Do not expose the unit to direct sunlight or excessive heat.

Otherwise these will raise the interior temperature of the unit, and it may lead to smoke, fire, or other damage to the unit.

Do not use the product where it will be exposed to water, moisture, or dust.

Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in truck washes or on rainy days.

To ensure safety, never attempt to preset stations while you are driving.

Depending upon the transmission condition of electro-magnetic waves, the geographical reasons and/or the weather conditions, you may not receive the NOAA radio partially or at all.

Make sure that your weather radio can receive properly before driving, especially, before use in a critical condition.

Set the volume level to low enough before the AUX connection is completed.

Failure to observe this, the loud noise may come out and damage your speakers and your hearing. Direct connection of the speaker/headphone output of an external device without any attenuator may distort sound or damage the connected external device.

Observe the following cautions when installing.

Refer wiring and installation to qualified service personnel.

Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealership. We are not liable for any problems resulting from your own installation of the unit.

Follow the instructions to install and wire the product.

Not following the instructions to properly install and wire the product could cause an accident or fire.

Take care not to damage the leads.

When wiring, take care not to damage the leads. Prevent them from getting caught in the vehicle chassis, screws, and moving parts such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be run over sharp metal edges, protect the leads by winding them with vinyl tape or similar protection.

Use the designated parts and tools for installation.

Use the supplied or designated parts and appropriate tools to install the product. The use of parts other than those supplied or designated may result in internal damage to the unit. Faulty installation may lead to an accident, a malfunction or fire.

Do not block the air vent or the cooling plate of the unit.

Blocking these parts will cause the interior of the unit to overheat and will result in fire or other damage.

Do not install the product where it is exposed to strong vibrations or is unstable.

Avoid slanted or strongly curved surfaces for installation. If the installation is not stable, the unit may fall down while driving and this can lead to an accident or injury.

Installation Angle

The product should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

The user should bear in mind that in some areas there may be restrictions on how and where this unit must be installed. Consult your dealership for further details.

Wear gloves for safety. Make sure that wiring is completed before installation.

To prevent damage to the unit, do not connect the power connector until the whole wiring is completed.

Do not connect more than one speaker to one set of speaker leads. (except for connecting to a tweeter)

Caution

• PLEASE FOLLOW THE LAWS AND REGULATIONS OF YOUR STATE, PROVINCE OR COUNTRY FOR WIRING, INSTALLATION, AND USE OF THIS UNIT AND THE DEVICES TO BE CONNECTED.

Safety Information (continued)



Warning

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

The following applies only in the U.S.A.

Part 15 of the FCC Rules

FCC Warning:

This device complies with Part 15 of the FCC Rules for Radio Receiver. Operation is subject to the condition that this device may not cause harmful interference. Any unauthorized changes or modifications to this equipment may void the user's authority to operate this device.

Caution

**THIS PRODUCT IS A CLASS I LASER PRODUCT.
USE OF CONTROLS OR ADJUSTMENTS OR
PERFORMANCE OF PROCEDURES OTHER THAN THOSE
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS
RADIATION EXPOSURE.**

**DO NOT OPEN COVERS AND DO NOT REPAIR BY
YOURSELF. REFER SERVICING TO QUALIFIED
PERSONNEL.**

Laser Products:

Wave length: 790 nm

Laser power: No hazardous radiation is emitted with safety
protection.

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND
ANNOYING INTERFERENCE, USE ONLY THE INCLUDED
COMPONENTS.**

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Features

Front AUX terminal (AUX1)

Your mobile audio player and other devices are connectable to this unit without any difficulty.

Rear AUX terminal (AUX2)

For more convenient connection, rear AUX terminals are now provided on the unit itself.

Sound control

SQ (Sound Quality)

You have four preset modes (FLAT, ROCK, POP and VOCAL).

CAN-readiness

This unit is a CAN (Controller Area Network)-ready device that provides communication with a steering wheel remote control and other CAN-ready units.

Fault detection of external amplifier

When an anomaly of the connected external amplifier is detected, "FAULT" text appears (the sound will be mute) and the power of this unit turned off after 6 seconds to remind taking inspection with the external amplifier.

Non-volatile memory

This unit stores the memories of each setting (tuner, audio, mode and alarm time settings) even if the power supply is shut off or the power cable is unplugged.

Illumination interlock control

The intensity/illumination of display and button on this unit is controlled by a PWM dimming module located in the vehicle.

This unit is connected in the vehicle to dimming analog signal (PWM signal). It's capable of dimming the backlighting based on a voltage supplied by a PWM dimming module.

USB connector

The USB Connector is equipped on the front panel. (⇒ page 16)

By connecting a USB memory (not included) to USB connector via a USB extension cable (USB 2.0, not included), you can enjoy MP3/WMA files stored on the USB memory (not included) in your truck.

By connecting iPod® series to USB connector via a USB extension cable for iPod (USB 2.0, not included), you can enjoy music files stored on the iPod series in your truck. Further information about the controllable iPod is described on page 18.

*iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Preparation

First time power on

- 1 Turn the key in the ignition until the accessory indicator lights.

- 2 Press [SRC] (PWR).

Clock adjustment

The 12-hour (AM/PM) system is used for the clock adjustment.

- 1 Press [DISP] (CLK).

 (Clock display)

- 2 Hold down [DISP] (CLK) for 2 sec. or more.

 Hour blinks

*Indicator for AM or PM time

- 3 Adjust the hour.

[>>>] : Sets ahead.

[<<<] : Sets back.

 Hour entered

- 4 Press [DISP] (CLK).

 Minute blinks

- 5 Adjust the minute.

[>>>] : Sets ahead.

[<<<] : Sets back.

 Minute entered

- 6 Press [DISP].

 Completed

Notes:

- Clock time is displayed when the unit is power off.
- "CLK ADJ" is displayed when the clock is not adjusted.
- Hold down [>>>] or [<<<] to change numbers rapidly.
- When you want to readjust the time, repeat steps 2 to 6.

Controls Layout

Main unit

SRC Source (➡ page 10)

PWR Power (→ page 10)

BAND (➡ page 12)

► Play/Pause

(➡ page 14, 16, 18)

APM Auto Preset Memory

(➡ page 12)

MUTE (➡ page 10)

SQ Sound Quality

(→ page 11)

VOLUME (➡ page 10)

PUSH SEL Select

(➡ page 11)

ALM Alarm (➡ page 20)

- **▲ (Eject)** (➡ page 14)

DISP Display
(➡ page 14, etc.)

CLK Clock (→ page 8)

- **USB Connector**
(➔ page 16)

AUX
From line output of
external
sound/audio device
(ex. Silicon-audio
player, HDD player,
etc.)

Preset Buttons [1] to [6]
(→ page 12)

[3] (SCROLL) (➡ page 14, etc.)

[4] (SCAN)/[5] (REPEAT)/[6] (RANDOM)
(→ page 14, 16, 19)

FOLDER \wedge/\vee (→ page 14, 16)

TUNE/SEEK ◀◀/▶▶ (➡ page 12)

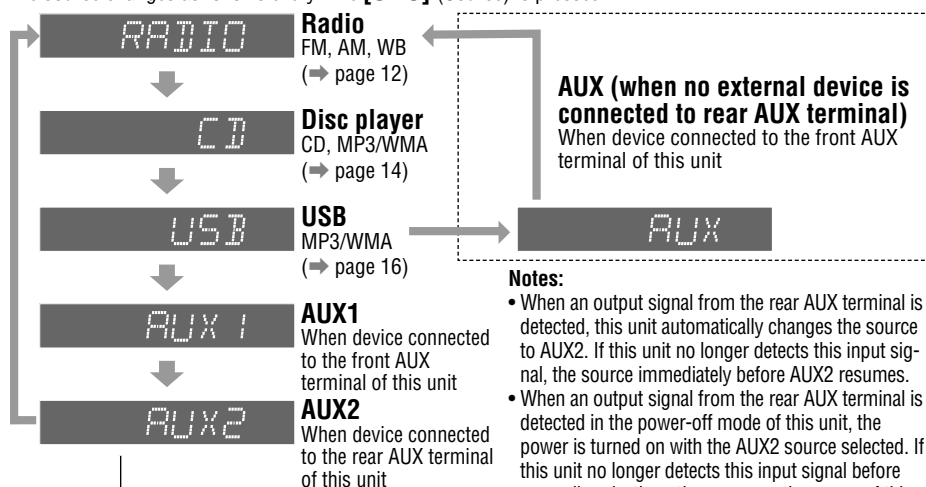
FILE (Track/File) (→ page 14, 16, 18)



General

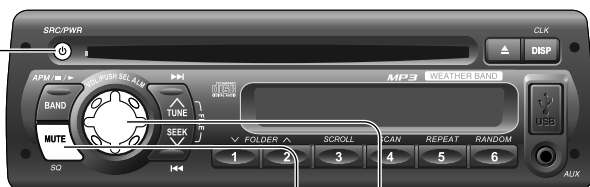
Source selection

The source changes as follows every time **[SRC]** (Source) is pressed.



Notes:

- When an output signal from the rear AUX terminal is detected, this unit automatically changes the source to AUX2. If this unit no longer detects this input signal, the source immediately before AUX2 resumes.
- When an output signal from the rear AUX terminal is detected in the power-off mode of this unit, the power is turned on with the AUX2 source selected. If this unit no longer detects this input signal before manually selecting other sources, the power of this unit is turned off.



Power

Turn the key in the ignition until the accessory indicator lights.

Power on: Press **[SRC](PWR)**.

WELCOME

Power off: Hold down **[SRC](PWR)** for more than 1 second.

One-Hour Timer

With the ignition off, pressing the **[PWR](Power)** on this unit will turn on the receiver and activate the receiver's one-hour timer. The receiver will turn off automatically after one hour.

Mute

Press **[MUTE]** to mute the sound completely. Press **[MUTE]** again to cancel.



Volume

Turn the knob clockwise to increase volume, and counterclockwise to decrease volume.

VOL 18

Volume level (0 to 40) (default:18)



Indication at connecting external amplifier

[AMP] lights when an external amplifier is connected.

Note: When an anomaly of the external amplifier is detected, "FAULT" appears (the sound will be mute/ **[AMP]** blinks repeatedly) and the power of this unit is turned off after 6 seconds.

When an external amplifier is connected, the adjustable volume level: 0 to 33 (Maximum).

Sound Controls

SQ (Sound Quality)

SQ is a function that can call up various sound types at the touch of button in accordance with your listening music type.

Press **[SQ]** for more than 2 seconds to select the sound type as follows:

SQ indicator



SQ-FLAT

(FLAT) flat frequency response:
does not emphasize any part. (default)

SQ-ROCK

(ROCK) speedy and heavy sound:
exaggerates bass and treble.

SQ-POP

(POP) wide-ranged and deep sound:
slightly emphasizes bass and treble.

SQ-VOCAL

(VOCAL) clear sound:
emphasizes middle tone and slightly
emphasizes treble.



Audio modes (Bass/Treble/Balance/Fader)

1 Push **[SEL]** to select the audio mode.

2 Turn **[VOLUME]** clockwise or counterclockwise to change each level.

VOL 18

(Volume)

(Setting Range: 0 to 40, default: 18)

VOL 20

①: Up
②: Down



BASS

(Bass)

(Setting Range: -12 dB to +12 dB by
2 dB, default: 0 dB)

BAS+ 6dB

①: Increased
②: Decreased

TREBLE

(Treble)

(Setting Range: -12 dB to +12 dB by
2 dB, default: 0 dB)

TRE+ 6dB

①: Increased
②: Decreased

BALANCE

(Balance)

(Setting Range: 15 levels each and 0
(center), default: CNT)

BAL L 15

①: Right enhanced
②: Left enhanced

FADER

(Fader)

(Setting Range: 15 levels each and 0
(center), default: CNT)

FAD F 15

①: Front enhanced
②: Rear enhanced

Note: If no operation takes place for more than 5 seconds in audio mode (2 seconds in volume mode), the display returns to the regular mode.

Radio

Band

Press **[BAND]** to change the band.



Weather Band
(→ page 13)

Caution

To ensure safety, never attempt to preset stations while you are driving.

ST (FM stereo) indicator
lights while receiving an FM stereo signal.



Frequency adjustment

[TUNE/SEEK ◀◀]: Lower

[TUNE/SEEK ▶▶]: Higher

Note: Hold down for 0.5 sec. or more and release for station search.

Preset station selection

Press the corresponding preset button from **[1]** to **[6]** to tune in a preset station.

Auto preset memory (APM)

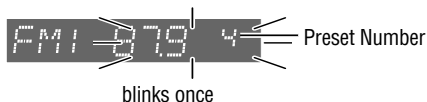
Press and hold **[BAND]** (**APM**: auto preset memory) for more than 2 seconds.

- The 6 stations with good reception will be automatically saved in the memory under preset buttons from **[1]** to **[6]**.
- Once set, the preset stations are sequentially scanned for 5 seconds each.
- Press one of the buttons from **[1]** to **[6]** to stop sequentially scan.

Note: New stations overwrite existing saved stations.

Manual preset memory

- 1 Use manual or seek tuning to find a station.
- 2 Press and hold one of the preset buttons from **[1]** to **[6]** until the display blinks once.



Note: New stations overwrite existing saved stations.

Tuning in a weather band station

- 1 Press **[BAND]** to select WB (Weather Band). (→ page 12)
- 2 Press any of the buttons **[1]** to **[6]** to monitor the preset station.

Note: The weather band (CH1-6) has been preset. CH7 is selected by pressing **[^]** or **[v]**.

Weather Band Stations

National Weather Radio Broadcasts from over 380 locations throughout the U.S. on seven VHF/FM frequencies.

Tune to weather band to receive continuous weather information 24 hours a day on one of the following frequencies.

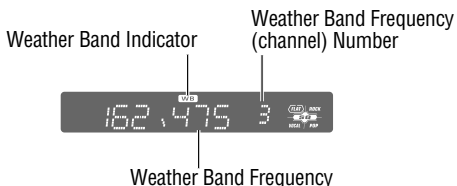
1. 162.550 MHz
2. 162.400 MHz
3. 162.475 MHz
4. 162.425 MHz
5. 162.450 MHz
6. 162.500 MHz
7. 162.525 MHz

Note: Further and updated information about the National Weather Radio station listing, please visit the web site:
<http://www.nws.noaa.gov/nwr/nwrbro.htm>

Occasionally the frequency of an existing or planned station must be changed because of unexpected radio frequency interfere with adjacent NOAA weather Radio Stations and/or with other Government or commercial Operations within the area. If you have a question concerning NOAA Weather Radio, please contact your nearest National Weather Service Office.

Warning

Any NOAA broadcast weather report, including current and forecasts, may not reflect your actual weather conditions at your exact time and location. You should always pay attention to your actual weather conditions to make safe decisions accordingly.



CD/MP3/WMA Player

⚠ Cautions

- Do not insert a disc when the **DISC** indicator lights.
- This unit does not support 8 cm {3"} discs.
- Do not use irregularly shaped discs.
- Do not use discs that have a seal or label attached.
- Do not insert foreign matter into the disc slots.

- Refer to the section on "Notes on CD-Rs/RWs" (⇒ page 30).
- Refer to the section on "Notes on MP3/WMA". (⇒ page 28)
- This unit does not support a MIX mode CD (a CD containing both CD-DA and compressed audio data). In case of using such a CD, problems may occur such as anacoustic playback.

Pause

Press **[BAND]** (||/▶).
Press again to cancel.

Disc loading/ejection

Loading

Load a disc in with the printed side facing up.

Notes:

- The power will be turned on automatically when a disc is loaded.
- Playback will start automatically after the player recognized the loaded disc as an ordinary music CD or MP3/WMA disc.

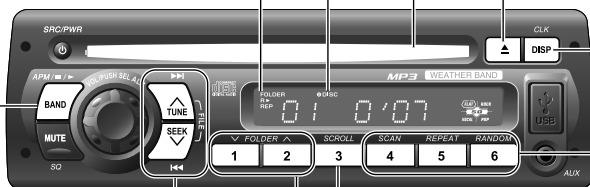
Ejection

Press **[▲]** to eject the disc.

REP (Repeat)/**R▶** (Random)/
FOLDER indicator

DISC (DISC)
indicator

Display Change
(⇒ page 15)



Track/File selection

[FILE ▶▶]: Next track/file

[FILE ◀◀]: Back to the beginning of the current track/file.
Back to the previous track/file. (press twice)

Note: Hold down for fast forward/reverse. Release to resume the regular play.

Folder selection (MP3/WMA)

[FOLDER ▲]: Next folder

[FOLDER ▼]: Preceding folder

Scan, Repeat, Random (⇒ page 15)

Display change

Press **[DISP]** to change the display.

Notes:

- For scrolling text, press **[3] (SCROLL)**.
- "NO TEXT" is displayed when there is no information on the disc.

CD-DA



* CD TEXT Display

Disc title and Track title name are displayed.

MP3/WMA



* ID3 Tag ON/OFF

Hold down **[3] (SCROLL)** for more than 2 seconds.

TAG ON: album title and song title/artist name are displayed.

TAG OFF: folder name/file name are displayed. (Default)

Scan, repeat, random

Scan play

The first 10 seconds of each track/file is played in sequence.

Press **[4] (SCAN)**. Track/file number blinks.

Press again to cancel.

Folder scan play (MP3/WMA)

From the next folder, the first 10 seconds of the first file in each folder is played in sequence.

Hold down **[4] (SCAN)** for more than 2 seconds.

[FOLDER] lights and folder number blinks.

Hold down again to cancel.

Repeat play

The current track/file is repeated.

Press **[5] (REPEAT)**. **[REP]** lights.

Press again to cancel.

Folder repeat play (MP3/WMA)

The current folder is repeated.

Hold down **[5] (REPEAT)** for more than 2 seconds. **[REP]**, **[FOLDER]** lights.

Hold down again to cancel.

Random play

All the available tracks/files are played in a random sequence.

Press **[6] (RANDOM)**. **[R▶]** lights.

Press again to cancel.

Folder random play (MP3/WMA)

All the available files in current folder are played in a random sequence.

Hold down **[6] (RANDOM)** for more than 2 seconds. **[R▶]**, **[FOLDER]** lights.

Hold down again to cancel.

USB (MP3/WMA)

⚠ Cautions

- Do not connect a USB device directly to this unit. If a USB device is connected directly to this unit and an accident occurs, or if the brakes are applied suddenly, the driver or passenger may bump into the USB device and may be injured.
- Connect your USB device to your truck audio using a standard USB extension cable (5 m or less).
- Position the USB device and USB extension cable so that they do not interfere with your driving.
- Do not connect any USB device other than a USB memory or a USB audio player. Do not connect multiple USB devices to the USB connector. Supplying power to multiple USB devices from the connector could cause overheating and smoking.

Compatible USB devices

- **USB Mass Storage Class**
For details as to whether your USB memory/USB Audio is compatible with USB Mass Storage Class, please contact the USB memory/USB Audio manufacturer.
- **USB Standard Compatibility 1.1/2.0 Full Speed**
- **File System FAT12/16/32**
- **Maximum current less than 500 mA**
- **Capacity less than 4 GB (1 partition)**

Notes: When an iPod compatible with this unit is connected, the iPod mode is activated. (⇒ page 18)

Pause

Press **[BAND]** (**II / ►**).
Press again to cancel.

USB device connection

Open the USB connector cover and connect a USB device to this unit.

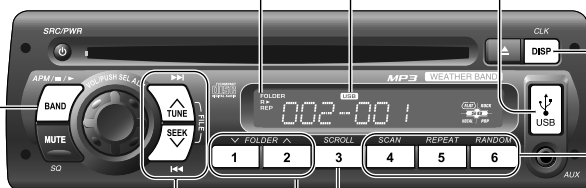
Notes:

- When connecting (disconnecting) a USB device, turn down the volume of the unit.
- When connecting a USB device, make sure the connector is pushed all the way into the socket.

REP (Repeat)/ R► (Random)/
FOLDER indicator

USB indicator
lights when a USB device is loaded

Display change
(⇒ page 17)



File selection

[FILE ►►]: Next file

[FILE ◀◀]: Back to the beginning of the current file.

Back to the previous file. (press twice)

Note: Hold down for fast forward/reverse. Release to resume the regular play.

Folder selection

[FOLDER ▲]: Next folder

[FOLDER ▼]: Preceding folder

Text Scroll

Scan, Repeat, Random
(⇒ page 17)

Notes:

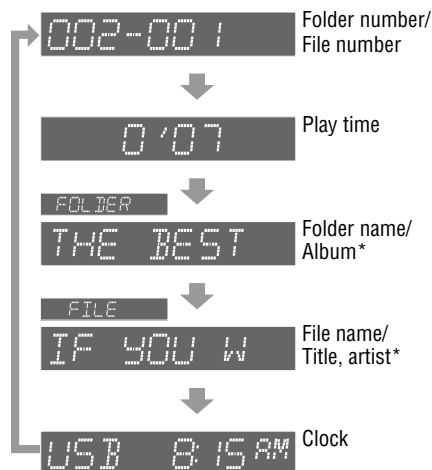
- Refer to the section on "Notes on MP3/WMA". (⇒ page 28)
- Do not leave the USB device for long periods of time in places inside the truck where the temperature rises too high.
- This unit may not operate correctly if a cable other than a USB standard cable is used.
- To prevent dirt and dust from adhering to the USB connector, close the cover of this unit when not in use.
- Back up any important data beforehand. We cannot accept responsibility for any lost data.
- The use of USB devices that contain data files other than MP3/WMA format is not recommended.
- Playback or display may not be possible depending on the type of USB device or the condition of the recording.
- Depending on the connected USB memory, the order in which the files are played back may differ from the order in which the files were stored.

Display change

Press **[DISP]** to change the display.

Notes:

- For scrolling text, press **[3] (SCROLL)**.
- "NO TEXT" is displayed when there is no information on the USB device.



* ID3 Tag ON/OFF

Hold down **[3] (SCROLL)** for more than 2 seconds.

TAG ON: album title and song title/artist name are displayed.

TAG OFF: folder name/file name are displayed.
(Default)

Scan, repeat, random

Scan play

The first 10 seconds of each file is played in sequence.

Press **[4] (SCAN)**. File number blinks.
Press again to cancel.

Folder scan play

From the next folder, the first 10 seconds of the first file in each folder is played in sequence.

Hold down **[4] (SCAN)** for more than 2 seconds.
FOLDER lights and folder number blinks.

Hold down again to cancel.

Repeat play

The current file is repeated.

Press **[5] (REPEAT)**. **REP** lights.
Press again to cancel.

Folder repeat play

The current folder is repeated.

Hold down **[5] (REPEAT)** for more than 2 seconds.
REP, **FOLDER** lights.

Hold down again to cancel.

Random play

All the available files are played in a random sequence.

Press **[6] (RANDOM)**. **R▶** lights.
Press again to cancel.

Folder random play

All the available files in current folder are played in a random sequence.

Hold down **[6] (RANDOM)** for more than 2 seconds.
R▶, **FOLDER** lights.

Hold down again to cancel.

iPod Control

By connecting iPod series to USB connector via a USB extension cable for iPod (USB 2.0, not included), you can enjoy music files stored on the iPod series in your truck.

Controllable iPod/software version (USB connector)

This unit is capable of controlling and playing music from an iPod. (video playback is not feasible)

- 5th generation iPod/ver. 1.2.3
- 1st generation iPod nano/ver. 1.3.1
- 2nd generation iPod nano/ver. 1.1.3
- 3rd generation iPod nano/ver. 1.1.3

- iPod classic/ver. 1.1.2
- iPod touch/ver. 1.1.5
- iPod photo/ver. 1.2.1

* Operation check has been completed with software available at the end of September, 2009. We do not guarantee the operation with our future products or upgraded software.

Preparation:

- Connect an iPod to USB connector of this unit.

Pause

Press **[BAND] (II/▶)**.

Press again to cancel.

iPod/USB indicator

lights when a USB extension cable for iPod and iPod are connected with USB connector and USB mode is selected.

REP (Repeat)/ R▶ (Random) indicator

USB connector

Display change
(⇒ page 19)



Text Scroll

Song selection

[FILE ▶▶]: Next song

[FILE ◀◀]: Back to the beginning of the current song.
Back to the previous song. (press twice)

Note: Hold down for fast forward/reverse. Release to resume the regular play.

Repeat, Random (⇒ page 19)

Playing Mode selection (⇒ page 19)

Notes:

- The shuffle function of iPod corresponds to the RANDOM function of this unit.
- Please make sure to detach the iPod after turning off the truck engine (turning the ACC to OFF). The iPod may not shut down while still connected, which may result in battery depletion.
- Please do not connect iPod accessories such as an iPod remote control or headphones while connecting iPod with the unit. The unit may not operate correctly.

- Connect this unit after turning down the volume of the iPod.
- "PAUSE" appears until the iPod is recognized after connecting the iPod. This indicates there is nothing wrong with the main unit.
- We do not guarantee all the operations of connectable devices.

Display change

Press [**DISP**] to change the display.


Notes:

- For scrolling text, press [**3**] (**SCROLL**).
- "NO TEXT" is displayed when there is no information on the iPod.




Playing mode selection

The type with which playback data is classified is selectable.

- 1 Press [**2**] (**FOLDER** ) to call up the play mode selection screen.
- 2 Turn [**VOL**] to select the play mode.
 - ① **PLAYLIST**: Playback by playlist (default)
 - ② **ARTIST**: Playback by artist
 - ③ **ALBUM**: Playback by album
 - ④ **GENRE**: Playback by genre

Notes:

- When the [**2**] (**FOLDER** ) button is pressed, the regular screen appears.
- "NO SONG" will appear if no song exists.

- 3 Press [**PUSH SEL**] to determine the selection.
- 4 Turn [**VOL**] to select the portion to play.
Note: When the [**2**] (**FOLDER** ) button is pressed, the previous screen appears.
- 5 Press [**PUSH SEL**] to determine the selection.

Repeat, random

Repeat play

The current song is repeated.

Press [**5**] (**REPEAT**).  lights.

Press again to cancel.

Note: The all Repeat Play function of iPod is always activated and cannot be canceled from this unit.

Random play (Shuffle)

All the available songs are played in a random sequence.

Press [**6**] (**RANDOM**).  lights.

Press again to cancel.

Album random play

All the playable albums are played in a random sequence.

Hold down [**6**] (**RANDOM**) for more than 2 seconds.  blinks.

Hold down again to cancel.

Alarm Setting

[ALM]



Alarm time setting

- 1 Hold down **[ALM]** for more than 2 seconds.
(**[ALARM TIME]** lights)

ALM ADJ (Alarm time display)

"ALM ADJ" is displayed when the alarm time is not adjusted.

- 2 Hold down **[ALM]** for more than 2 seconds after the above display is shown.

ALM 12:00 AM Hour blinks

- 3 Adjust the hour.

[▶▶] : Sets ahead.

[◀◀] : Sets back.

ALM 8:00 AM Hour entered

- 4 Push **[ALM]**.

ALM 8:00 AM Minute blinks

- 5 Adjust the minute.

[▶▶] : Sets ahead.

[◀◀] : Sets back.

ALM 8:15 AM Minute entered

- 6 Push **[ALM]** to complete.

ALM 8:15 AM Completed

The alarm is set to ON automatically after complete alarm time setting.
Alarm indicator (ALM) lights.

Notes:

- When the clock (➡ page 8) is not set, perform and complete the alarm time setting, the clock time will set to "PM 1:00" automatically. Please readjust the clock time depending on the actual clock time.
- Hold down **[▶▶]** or **[◀◀]** to change numbers rapidly.
- When you want to readjust the alarm time, repeat steps 1 to 6.

Turning ON/OFF the alarm

- 1 Hold down **[ALM]** for more than 2 seconds.

ALM 12:00 AM (Alarm time display)

- 2 Push **[ALM]**.

ALM OFF (Alarm ON/OFF setting)

- 3 Turn **[ALM]** clockwise or counterclockwise to select alarm ON or OFF, then push **[ALM]** again to confirm the setting.

(Select alarm ON, ALM lights.)

Notes:

- Before turn ON the alarm, make sure the alarm time is set. Failure to heed this will cause invalid selection of alarm ON.
- Hold down **[ALM]** for more than 2 seconds when the alarm is sounding also turns off the alarm.
- Access of alarm ON/OFF is available by push **[ALM]** in the "Alarm time display".

Activating snooze

Press any button on this unit when the alarm is sounding.

SNOOZE

The alarm will sound again in 9 minutes.

Notes:

- If you do not turn the alarm off when the alarm is sounding, the alarm sound will shut off after an hour. (including the amount of time the alarm was postponed (snooze))
- If you connect with the optional wired remote control unit (RSA-300), please notice the ALARM button on RSA-300 only reflect the function of Display Alarm Time. (It's not feasible for long key operation)

Troubleshooting

If you suspect something wrong

Check and take steps as described below.

If the described suggestions do not solve the problem, it is recommended to take the unit to your dealership. The product should be serviced only by qualified personnel. Please refer the checking and the repair to professionals. We shall not be liable for any accidents arising out of neglect of checking the unit or your own repair after your checking.

Never take measures especially for those other than indicated by *italic* letters in "Possible Solution" described below because those are too dangerous for users to handle themselves.

Warning

- Do not use the unit in an irregular condition, for example, without sound, or with smoke or a foul smell, which can cause ignition or electric shock. Immediately stop using the unit and consult your dealership.
- Never try to repair the unit by yourself because it is dangerous to do so.

Common

Problem	Possible cause → Possible solution
No power to the unit	<p>The power cord (battery, power and ground) is connected in the wrong way. → Check the wiring.</p>
Sound is not generated.	<p>MUTE is set to ON. → Set MUTE to OFF.</p> <p>There is contact between the external mute lead and the chassis. → Connect the external mute lead correctly. If the lead is unused, insulate it.</p> <p>The wiring of speaker lines are not correct, or a break or poor contact arises. → Check the wiring in accordance with the wiring diagram.</p>
Noise	<p>There is an electromagnetic-wave generator such as a cellular phone near the unit or its electrical lines. → <i>Keep an electromagnetic-wave generator such as a cellular phone away from the unit and the wiring of the unit. In case that noise cannot be eliminated due to the wiring harness of the truck, consult your dealership.</i></p> <p>The contact of the ground lead is poor. → Make sure that the ground lead is connected to an unpainted part of the chassis securely.</p>
Noise is made in step with engine revolutions.	<p>Alternator noise comes from the truck. → Change the wiring position of the ground lead. → Mount a noise filter on the power supply.</p>
Some operations are not executable.	<p>Some operations are not executable in particular modes such as menu mode. → <i>Read the operating instructions carefully and cancel the mode. If the unit is still out of order, consult your dealership.</i></p>

Troubleshooting (continued)

No sound from speaker(s)

BALANCE/FADER setting is not appropriate.

➔ **Readjust BALANCE/FADER.**

There is a break, a short circuit, poor contact or wrong wiring regarding the speaker wiring.

➔ **Check the speaker wiring.**

The speaker channels are reversed between right and left.

The speaker wiring is confused between right and left.

➔ **Perform the speaker wiring in accordance with the wiring diagram.**

The sound field is not clear in the stereo mode. Central sound does not settled.

The plus and minus terminals at right and left channels of speakers are connected reversely.

➔ **Perform the speaker wiring in accordance with the wiring diagram.**

The power fails unintentionally.

The safety device works.

➔ **Consult your dealership.**

Clock time is reset.

Battery cable is not correctly connected.

➔ **Connect the battery cable to the terminal that is always active.**

Radio

Poor reception or noise

Antenna installation or wiring of antenna cable is faulty.

➔ **Check whether the antenna mounting position and its wiring are correct. In addition, check to see whether the antenna ground is securely connected to the chassis.**

No power is supplied to the antenna amplifier (when using a film antenna, etc.).

➔ **Check the wiring of the antenna battery lead.**

The number of auto preset stations is less than 6.

The number of receivable stations is less than 6.

➔ **Move to an area where receivable stations number is maximum, and try presetting.**

CD

No playback or disc ejected	<p>The disc is inserted upside down. ➔ Insert a disc correctly.</p> <p>There is a flaw or foreign material on the disc. ➔ Remove the foreign material, or use a flawless disc.</p>
Sound skipping or noise	<p>There is a flaw or foreign material on the disc. ➔ Remove the foreign material, or use a flawless disc.</p>
Sound skipping due to vibration	<p>The unit is not sufficiently secured. ➔ Secure the unit to the console box.</p> <p>The unit is tilted at over 30° in the front-to-end direction. ➔ Make the angle 30° or less.</p>
Disc unejectable	<p>Something such as a peeled label obstructs the disc coming out. ➔ Consult your dealership.</p> <p>The microcontroller in the unit operates abnormally due to noise or other factors. ➔ Unplug the power cord and plug it again. In case the unit is still out of order, consult your dealership.</p>

MP3/WMA

No playback or disc ejected	<p>The disc has unplayable formatted data. ➔ Check the file format.</p>
The CD-R/RWs that are playable on other devices are not playable on this unit.	<p>The playability of some CD-Rs/RWs may depend on the combination of media, recording software and recorder to be used even if these CD-Rs/RWs are playable on other devices such as a PC. ➔ Make CD-R/RWs in different combination of media, recording software and recorder after referring to the description about the compressed audio player.</p>
Sound skipping or noise	<p>There is a flaw or foreign material on the disc. ➔ Remove the foreign material, or use a flawless disc.</p> <p>Playing VBR (Variable Bit Rate) files may cause sound skipping. ➔ Play Non-VBR files.</p>

Note: Refer to “Notes on MP3/WMA”. (➔ Page 28)

Troubleshooting (continued)

USB

Music is not played back even if the USB device is connected.

The USB device and USB extension cable are not connected correctly.

➔ **Connect the USB device and USB extension cable correctly.**

There is no music stored in a format that is supported on this unit.

➔ **Check if there is any music data that can be played stored on the USB device.**

The file system of the USB device is not compatible with this unit.

➔ **Use a USB device with a FAT12/16/32 file system.**

The current consumption of the USB device exceeds 500 mA.

➔ **Use a USB device with a current consumption lower than 500 mA.**

“READING” is displayed but music is not played back.

A USB hub is connected.

➔ **Do not use a USB hub.**

Too many recorded folders/files exist.







➔ **When there are too many recorded folders/files, it may take a long time to read all of the files.**

Product servicing

If the suggestions in the charts do not solve the problem, we recommend that you take it to your dealership. The product should be serviced only by a qualified technician.

Error Display Messages

CD/MP3/WMA

Display	Possible cause → Possible solution
	The disc is dirty, or is upside down. → Check the disc.
	The disc has scratches. → Check the disc.
	No operation by some cause. → Unplug the power cord and plug it again. In case the unit is still out of order, consult your dealership.
	The player for some reason cannot read the file you are trying to play. (File recorded in an unsupported file system, compression scheme, data format, file name extension, damaged data, etc.) → Select a file that the player can read. Check the type of data recorded on the disc. Create a new disc if necessary.
	A WMA file can be copyrighted. → The file protected by copyright is not playable.
	No disc in the player. → Insert disc into the disc slot.

Error Display Messages (continued)

USB

NO USB

A USB device is not connected or the connected device cannot be recognized.

➔ **Use the type of USB memory that is suitable for this unit.**

USB -E1-

Your USB device has no playable file.

➔ **Download playable file to your USB device.**

USB -E2-

A USB device the capacity of which exceeds the acceptable current was connected.

For some reason, an over-current was detected.

➔ **Use a USB device that has a consumption current of less than 500 mA.**

➔ **Switch the source, and select the USB mode again.**

➔ **Check that the USB connector section is not dirty, and that there is no foreign material.**

USB -E3-

No operation by some cause.

➔ **Turn off the power and turn on the power again, or turn the key to the ACC OFF position and turn the key to ACC ON position again. If this does not solve the problem, unplug the power cord and plug it in again. In case the unit is still out of order, consult your dealership.**

USB -E4-

The player for some reason cannot read the file you are trying to play. (File recorded in an unsupported file system, compression scheme, data format, file name extension, damaged data, etc.)

➔ **Confirm that the USB extension cable is firmly connected, and reconnect if not. Select a file that the player can read. Check the type of data stored in the USB device. Format the USB device if necessary.**

USB -E5-

A WMA file can be copyrighted.

➔ **The file protected by copyright is not playable.**

Maintenance

Cleaning this unit

Your product is designed and manufactured to ensure a minimum of maintenance. Use a dry soft cloth for routine exterior cleaning. Never use benzene, thinner or other solvents.



To remove stubborn stains

- 1 Moisten the soft cloth in dishwashing soap diluted with water and wring well.
- 2 Wipe lightly. Go over the same surface with a dry cloth.



Note:

- Since there is the possibility of water drops getting inside of the unit, do not directly apply cleanser to the surface.
- Do not scratch the screen with your nails or other hard objects. The resulting scratches or marks will obscure the images.

⚠ Caution

- If water drops or similar wet substances get inside the unit, it may cause a malfunction.

Notes on MP3/WMA

Both of MP3 (MPEG Audio Layer-3) and WMA (Windows Media™ Audio) is a format for compressed audio file. These formats allow users to save all the files contained in approximately 10 pieces of existing CDs on one piece of CD-R/RW.

Note: Each of encoding software is not included with this unit.

*MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Cautions as to compressed audio files

Common

- High bit rate and high sampling frequency are recommended for high quality sounds.
- Selecting VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and sound may be skipped.
- The playback sound quality differs depending on the encoding circumstances. For details, refer to the user manual of your own encoding software and writing software.
- Be sure to put an extension compatible with the format.

MP3

- It is recommended to set the bit rate to “128 kbps or more” and “fixed”.

WMA

- It is recommended to set the bit rate to “64 kbps or more” and “fixed”.
- Do not set the copy protect attribute on the WMA file to enable this unit to play back.

Compression formats

Compression method	Bit rate	VBR	Sampling frequency
MPEG 1 audio layer 3 (MP3)	32 k – 320 kbps	Yes	32, 44.1, 48 kHz
MPEG 2 audio layer 3 (MP3)	8 k – 160 kbps	Yes	16, 22.05, 24 kHz
MPEG 2.5 audio layer 3 (MP3)	8 k – 160 kbps	Yes	8, 11.025, 12 kHz
Windows Media Audio Ver. 2, 7, 8, 9*	64 k – 160 kbps	Yes	32, 44.1, 48 kHz

* WMA 9 Professional/LossLess/Voice are not supported.

Caution

Never put an extension indicating compressed audio (such as “.mp3” and “.wma”) to files other than compressed audio files. This may not only produce noise from the speaker damage, but also damage your hearing.

Cautions as to the display of this unit

Display Information

- **CD-TEXT**
Disc title
Track title
- **MP3 (ID3 tag)**
Album name,
Title name/artist name
- **MP3/WMA**
Folder name,
File name
- **WMA (WMA tag)**
Album name,
Title name/artist name

Displayable characters

- Displayable length of file name/folder name: within 30 characters. (Unicoded file and folder names are reduced by half in the number of displayable characters.)
- Name files and folders in accordance with the standard of each file system. Refer to the instructions of writing software for details.
- ASCII character set and special characters in each language can be displayed.

ASCII character set

A to Z, a to z, digits 0 to 9, and the following symbols:
(space) ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~

Notes:

- Characters may be garbled depending on encoding software to be used
- Undisplayable characters and symbols will be converted into an asterisk (*).

Cautions as to compressed audio files

Compressed audio file writing

- Do not save an audio file (CD-DA file) and a compressed audio file on the same disc. Failure to observe this may result in difficulty in playing.
- If compressed audio files formatted with two or more types are saved on the same disc, each format shall have a different folder.
- Do not write files other than compressed audio files.
- Playability may depend on the combination of writing software and disc writer to be used.
- This unit does not support the play list function.
- Write files in a disc-at-once manner unless otherwise needed.
- You can shorten the duration between data read and playback by decreasing the quantity of files or folders, or the depth of the hierarchy.

Supported file systems

■ CD-media

ISO 9660 Level 1/Level 2, Apple Extension to ISO 9660, Joliet, Romeo

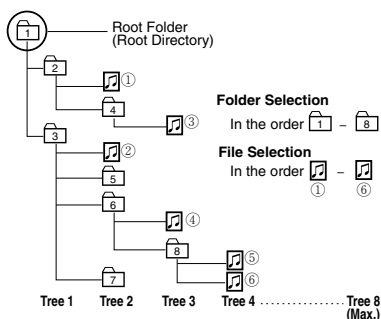
Note: Apple HFS, UDF 1.50, Mix CD and CD Extra are not supported.

■ USB-device

File system is FAT12/16/32

Folder selection order/file playback order

■ CD-media/USB-device



Maximum number of files/folders

- Maximum number of files
CD-media: 999
USB device: 65 535
- Maximum number of files in one folder
CD-media: 255
USB device: 999
- Maximum depth of trees: 8
- Maximum number of folders: 255 (Root folder is included.)

Notes:

- This unit counts the number of folders irrespective of the presence or absence of a compressed audio file.
- If the selected folder does not contain any compressed audio file, the nearest compressed audio file in the order of playback will play.
- Playback order of this unit may be different from that of other compressed audio players even if the same disc is used
- "ROOT" appears when displaying the root folder name.

Common

Copyright

It is prohibited by copyright laws to copy, distribute and deliver copyrighted materials such as music without the approval of copyright holder except enjoying yourself personally.

No warranty

Above description complies with our investigations as of September 2009. It has no warranty for reproducibility and displayability of MP3/WMA.

Notes on Discs

How to hold the disc

- Do not touch the underside of the disc.
- Do not scratch the disc.
- Do not bend disc.
- When not in use, keep disc in the case.

Printed side



Unusable discs

Do not use discs that fit any of the descriptions given below. Using these discs may damage the discs or cause the unit to malfunction.

- Special discs in a shape which is not round



- Partly or wholly transparent disc



Wholly transparent disc*

Partly transparent disc

*Wholly semi-transparent disc may not be played back.

- Discs with adhered labels, etc. on them



Disc with adhered stickers or tape

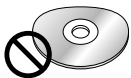
Labels created by a printer



Protective films or sheets

Disc accessories (stabilizers, etc.)

- Damaged or deformed discs



Shoddily made discs

Discs with cracks, scratches or parts missing



Discs with burrs
Please remove the burrs before use.

Disc insert

The surfaces of new discs tend to be slippery. Therefore, when using such a disc for the first time, it may not load satisfactorily even when it has been inserted into the unit. At a time like this, insert the disc into the unit as far as it will go until it is loaded properly.

- When inserting a disc into or ejecting and removing it from the unit, insert it straight in or eject and remove it straight out in parallel with the unit. Otherwise, the disc may be scratched or marked in the process.
- When inserting a disc, do not put one disc on another. Failure to observe this may cause the discs to be jammed.

Do not leave discs in the following places:

- Direct sunlight
- Near truck heaters
- Dirty, dusty and damp areas
- On seats and dashboards

Disc cleaning

Use a dry, soft cloth to wipe from the center outward.

Do not attach any seals or labels to your discs.

Do not write on the disc label in a heavy pen or ball-point pen.



<Correct>



<Wrong>

Notes on CD-Rs/RWs

- You may have trouble playing back some CD-R/RW discs recorded on CD recorders (CD-R/RW drives), either due to their recording characteristics or dirt, fingerprints, scratches, etc. on the disc surface.
- CD-R/RW discs are less resistant to high temperatures and high humidity than ordinary music CDs. Leaving them inside a truck for extended periods may damage and make playback impossible.
- The unit may not successfully playback a CD-R/RW that was made by the combination of writing software, a CD recorder (CD-R/RW drives) and a disc if they are incompatible with one another.
- This player does not play CD-R/RW discs if the session is not closed.
- Be sure to observe the handling instructions of CD-R/RW discs.
- This player does not play CD-R/RW discs which contain other than CD-DA or MP3/WMA data.

Specifications

General

Power Supply:	12 V DC (11 V-16 V) test Voltage 14.4 V, Negative ground
Current consumption:	Less than 2.5 A (CD mode, 0.5 W 4-speaker)
Maximum Power Output:	45 W x 4 channels at 400 Hz, Volume Control maximum
Tone adjustment range:	
Bass:	± 12 dB at 100 Hz
Treble:	± 12 dB at 10 kHz
Power Output:	18 W per channel into 4 Ω, 40 to 30 000 Hz at 3 % THD
Suitable Speaker Impedance:	4 Ω
Dimensions (W x H x D):	178 mm x 50 mm x 155 mm {7" x 1 ¹⁵ / ₁₆ " x 6 ¹ / ₈ "}
Weight:	1.2 kg {2 lbs. 10 oz.}
USB connector	
USB standard compatibility:	1.1/2.0 full speed
File system:	FAT12/16/32
Maximum supply current:	500 mA
Playable audio format:	MP3/WMA
Recommended capacity:	Less than 4 GB (1 partition)
Front AUX input	
Input impedance:	10 kΩ
Maximum input level:	2.0 V
Connector:	3.5 mm ø Stereo mini pin
Input sensitivity:	200 mVrms
Rear AUX input	
Input impedance:	10 kΩ
Maximum input level:	2.0 V
Input sensitivity:	200 mVrms

FM stereo radio

Frequency Range:	87.9 MHz –107.9 MHz
Useable Sensitivity:	12 dBf (1.1 μV/ 75 Ω, S/N 30 dB)
50 dB Quieting Sensitivity:	17 dBf (1.8 μV/ 75 Ω)
Frequency Response:	30-15 000 Hz ±3 dB
Alternate Channel Selectivity:	75 dB
Stereo Separation:	35 dB at 1 kHz
Signal/Noise Ratio:	70 dB (Mono)

AM radio

Frequency range:	530 kHz–1 710 kHz
Usable sensitivity:	28 dB/μV (S/N 20 dB)

Weather band radio

Frequency range:	162.400 MHz –162.550 MHz
Usable sensitivity:	3 dB/μV (S/N 20 dB)
Signal/Noise Ratio (40 dB/μV):	50 dB

CD player

Sampling Frequency:	8 times oversampling
DA Converter:	1 bit/4 DAC System
Error Correction System:	Spot size detection method
Pick-Up Type:	3-beam
Light Source:	Semiconductor laser
Wavelength:	790 nm
Frequency Response:	20 - 20,000 Hz (±1 dB)
Signal to Noise Ratio:	85 dB
Wow and Flutter:	Below measurable limits
Channel Separation:	75 dB

Above specifications comply with EIA standards.

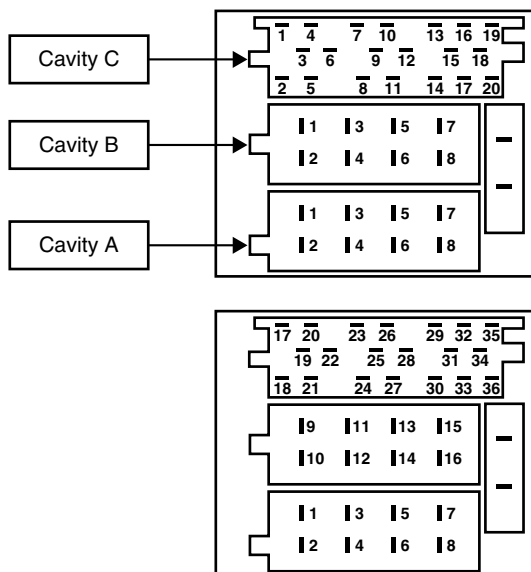
Note: Specifications and the design are subject to modification without notice due to improvements in technology.

Power Output:
16 W RMS x 4 Channels at 4 Ω and ≤ 1% THD+N
Signal to Noise Ratio:
85 dBA (reference: 1 W into 4 Ω)



Specification from the Terminal End (Rear Connector of This Unit)

Specification from the terminal end (Rear connector of this unit)



Cavity	Pin #	Function	I/O
A1	1	J1939 CAN-H*	I/O
A2	2	J1939 CAN-L*	I/O
A3	3	Park Lights	I
A4	4	ACC (Ignition)	I
A5	5	Power Antenna	O
A6	6	Dim PWM	I
A7	7	Battery	I
A8	8	Power Ground	I
B1	9	RR+ (Speaker)	O
B2	10	RR- (Speaker)	O
B3	11	RF+ (Speaker)	O
B4	12	RF- (Speaker)	O
B5	13	LF+ (Speaker)	O
B6	14	LF- (Speaker)	O
B7	15	LR+ (Speaker)	O
B8	16	LR- (Speaker)	O
C1	17	Power Ground	I
C2	18	Amp Sense	I
C3	19	N/C	
C4	20	N/C	
C5	21	ASWC	I
C6	22	N/C	
C7	23	L_AUX_IN	I
C8	24	AUX_SHIELD_GND	I
C9	25	AUX_COM	I
C10	26	R_AUX_IN	I
C11	27	AUX_ON_OFF	I
C12	28	Power Ground	I
C13	29	N/C	
C14	30	Power Ground	I
C15	31	N/C	
C16	32	N/C	
C17	33	N/C	
C18	34	N/C	
C19	35	N/C	
C20	36	N/C	

⚠ Caution

This product is designed without a fuse inside due to fuses already exist in your vehicle.

If your vehicle is without the fuse or a circuit breaker to protect this unit, please consult your dealership add the specified fuse* or a circuit breaker at the BATTERY lead of your vehicle's harness.

*We would recommend to use fuses of the specified rating not exceed (15 A). Using fuses that exceed the prescribed capacity could cause this product to start smoking, ignite or other malfunction.

Note:

* This pin (J1939 CAN-H/J1939 CAN-L) is not available because it is for future use. Please do not connect to this pin.

[illegible]

Memorandum

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

